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IN THE CIRCUIT COURT
FOURTH JUDICIAL CIRCUIT, DUVAL COUNTY, FLORIDA

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DANA RAULERSON, as Personal
Representative of the ESTATE
OF JEAN CONNOR, Deceased,

Plaintiff,

vs.

No. 95-01820-CA

R. J. REYNOLDS TOBACCO COMPANY,
etc., et al.,

Defendants.

Deposition of

WILLIAM WECKER, Ph.D.

Friday, April 4th, 1997

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REPORTED BY: DANA DIBASILIO TOGNINI, CSR #10118

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Page Number

EXAMINATION BY MR. WILNER

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EXHIBITS

(None were marked)

HUMPHREY
in

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1 BE IT REMEMBERED THAT, pursuant to Notice of
2 Taking Deposition and on Friday, the 4th day of April,
3 1997, commencing at the hour of 10:45 o'clock a.m.
4 thereof, at the Offices of WILLIAM WECKER, Ph.D.,
5 505 San Marin Drive, Suite 200, Novato, California,
6 94945 before me, DANA DIBASILIO TOGNINI, a Certified
7 Shorthand Reporter of the State of California,
8 personally appeared

9 WILLIAM WECKER, Ph.D.,
10 called as a witness by the Plaintiff, having been by me
11 first duly sworn, was examined and testified as
12 hereinafter set forth.

13 ---000---

14 * APPEARANCES OF COUNSEL

15 For the Plaintiff

16 SPOHRER, WILNER, MAXWELL, MACIEJEWSKI & STANFORD
17 444 East Duval Street
18 Jacksonville, Florida 32202
19 By: NORWOOD S. WILNER, Attorney at Law
20 (appearing via speakerphone)

21 For the Defendants

22 JONES, DAY, REAVIS & POGUE
23 North Point
24 901 Lakeside Avenue
25 Cleveland, Ohio 44114
By: WILLIAM T. PLESEC, Attorney at Law

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1 MR. PLESEC: We've got Dr. Wecker here, and we
2 have the court reporter here.

3 MR. WILNER: All right.

4 MR. PLESEC: For the record, William T. Plessec
5 representing R.J. Reynolds Tobacco Company in
6 deposition of Dr. William E. Wecker in the case of
7 Connor versus R.J. Reynolds Tobacco Company. The
8 deposition we were told was going to begin at 10:00,
9 and we were told that plaintiff wanted about three
10 hours of Dr. Wecker's time. Dr. Wecker and the court
11 reporter were here at 10:00, and I'm not sure what the
12 reason for the delay is. Maybe counsel for the
13 plaintiff can explain.

14 * MR. WILNER: Counsel for the plaintiff has been in
15 a pretrial hearing, which was known to all, and we
16 understood that the deposition would begin at 1:00.

17 MR. PLESEC: Yeah, 1:00 o'clock Eastern time,
18 Woody, 10:00 o'clock Pacific time.

19 MR. WILNER: Oh, fine. All right. So what it is
20 now, 10:44?

21 MR. PLESEC: Right.

22 MR. WILNER: Well, let's get going then.

23 MR. PLESEC: Let me just make a couple other
24 points. We'll try and accommodate you as best we can
25 to get you your deposition and -- but other plans have

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1 been scheduled for the remainder of the day. We'll try
2 and do our best to help you out here.

3 A couple things that I ought to note: One, I
4 personally did not receive the deposition notice, which
5 was issued on April 1st, until about 11:00 p.m. on the
6 evening of April 1st. Dr. Wecker was unavailable on
7 Wednesday, April 2nd. So I wasn't able to converse
8 with him personally about the documents called for by
9 the deposition notice. I had a chance to do that
10 yesterday, and Dr. Wecker has done his best to try and
11 gather documents responsive to the notice.

12 MR. WEINER: All right.

13 MR. PLESEC: And he has materials with him today
14 in that regard.

15 We would object to the third specification of
16 the notice calling for, quote, "All materials the
17 witness expects to be introduced as evidence," end
18 quote. I'm not sure if that was really something that
19 was intended to be in the notice, but as you know,
20 counsel, it's the lawyers for the parties that are
21 going to be introducing -- and the parties -- that will
22 be introducing evidence and not the witness.

23 Dr. Wecker certainly doesn't know what is
24 intended to be introduced through him as a witness at
25 this point. His testimony, obviously, at the trial

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1 will be evidence, and that's what he's prepared to talk
2 about today.

3 In any event, as Dr. Wecker was trying to
4 gather materials in response to the deposition notice,
5 he did check the materials that we have furnished to
6 you in the past, the exhibits that he had generated for
7 possible use in connection with his testimony. And he
8 did observe that there were a couple of minor
9 mathematical errors, which have now been corrected, on
10 a couple of the charts.

11 If you would like us to fax those to you
12 immediately, we can do so.

13 MR. WILNER: How many pages?

14 MR. PLESEC: We're talking about three or four
15 pages.

16 MR. WILNER: Okay. 904 --

17 MR. PLESEC: Let me get a pencil and jot that
18 down.

19 904 --

20 MR. WILNER: -- 358 --

21 MR. PLESEC: 358 --

22 MR. WILNER: -- 6889.

23 MR. PLESEC: -- 6889. Okay. We'll put those on
24 the fax to you immediately.

25 MR. WILNER: Okay. Are we ready?

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1 MR. PLESEC: We can begin.
2 MR. WILNER: Okay. Please swear the witness.
3 (Witness sworn.)
4 EXAMINATION BY MR. WILNER
5 MR. WILNER: Q. Okay. Are you William Wecker?
6 A. Yes.
7 Q. Have you been asked to testify in the case
8 brought by Jean Connor?
9 A. Not yet.
10 Q. Have you been contacted and had discussions
11 about the possibility that you might testify?
12 A. .
13 Q. Have you done any calculations or computations
14 in preparation for that testimony?
15 A. Yes.
16 Q. The computations and calculations have
17 concerned . been operations on a data set possessed by
18 you of CPS-II data?
19 A. Yes.
20 Q. Have you used any other data sets other than
21 the CPS-II data?
22 A. Go ahead.
23 Q. Have you used any other data sets?
24 A. I haven't used any other data sets, but from
25 time to time I used numbers, for example, out of the

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1 Surgeon General report. And maybe the easiest way to
2 explain that to you is as we go through my materials
3 we'll be able to tell that.

4 Q. The CPS-II data that you used is a data set
5 they supplied to you through the American Cancer
6 Society?

7 A. Yes.

8 Q. Does it include both male and female
9 respondents to the questionnaire?

10 A. Yes.

11 MR. PLESEC: Are you still there?

12 MR. WILNER: (No response.)

13 (Telephone disconnection.)

14 MR. WILNER: Hello?

15 MR. PLESEC: Hello.

16 MR. WILNER: Okay. Are we back on?

17 MR. PLESEC: Yes.

18 MR. WILNER: Okay. I have some materials that I
19 think were created by you that have been forwarded to
20 me through the legal process. And one such paper is
21 entitled, "Lifestyle Choices That Increase Mortality
22 Risks; Eating and Drinking Choices," does that sound
23 familiar?

24 A. Yes.

25 Q. And it has a series of kind of little checked

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1 boxes and some various descriptions of activities like
2 "Eat more fried foods. Eat more high-fat foods."

3 Do you have that in front of you?

4 A. I do.

5 Q. Do you generate that yourself?

6 A. Yes.

7 Q. Do the categories that you have listed here,
8 like eat more fried foods and eat more high-fat foods,
9 did you do computations about these types of categories
10 from the [REDACTED] -II database?

11 A. Yes.

12 Q. [REDACTED] beginning with the eat more fried foods,
13 could you tell me what field in the database you used
14 and what codes you felt were suggestive of eating more
15 fried foods?

16 A. Just a moment. Do you have a copy of either
17 the male or female questionnaire?

18 Q. [REDACTED] Yes, I have the '85 code book for males.

19 A. That's not the questionnaire.

20 Q. I have the questionnaire as well.

21 A. Okay. I'm looking at a copy of the
22 questionnaire for men, and there is a diet section that
23 begins on the third page.

24 Q. Yes, I'll get that in a minute. But you
25 needed to use the code book to do work from the actual

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1 CPS data, right?

2 A. Yes, but there is a correspondence between the
3 questionnaire and the CPS data, and it happens that I
4 have in front of me the questionnaire and I don't have
5 the code book.

6 Q. All right. You don't have the code book. All
7 right. Just a minute.

8 A. Okay. I have the questionnaire.

9 A. You'll find the third page where the diet
10 section begins.

11 Q. Okay.

12 A. [REDACTED] about the middle of the left-hand side
13 column there is a box to check that says, "Do not eat
14 fried foods."

15 Q. Yes, I see that.

16 A. If you check that box, you're in one category.
17 And if you don't check the box, you're in the eat fried
18 foods category. That information is then transcribed
19 onto a computer file, but I think it's easier to
20 explain by looking at the questionnaire as the people
21 fill it out.

22 Q. Yes. Well, I would rather go directly to the
23 computer file when you have the ability to do that.

24 But do you then exclude the people who do not
25 code that section one way or another?

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1 A. If they --

2 Q. Do you recall the coding format for that box?

3 A. I don't have the format, and I don't recall
4 it. But what I do is, if they are indicated as
5 checking that box, they are in one category. And
6 everybody else is in the other category.

7 Q. Okay. Let me get this straight. Okay. I'm
8 reading from the code book. On column 200 the question
9 is asked "Do you eat fried foods?" And the answer is,
10 "2, never. Blank, if box is not checked."

11 So your two populations are the ones who
12 checked 2, and the ones who checked nothing and they
13 are coded as blank, right?

14 A. Well, that sounds right from what you say over
15 the phone, and I would be willing to bet you're right.
16 But I'm really not able to tell you because I don't
17 have that coding in front of me.

18 Q. Okay.

19 A. But I think there is very little doubt that
20 you have found the correspondence between the
21 questionnaire and the data.

22 Q. Now, how do you define your two populations
23 between smokers and never smokers?

24 A. Current cigarette smokers and never smokers.

25 Q. Let's try to make that as specific as we can

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1 then. What question and what answer did you qualify
2 someone as a current cigarette smoker?

3 A. Just a second. It looks like it's -- I did
4 this a long time ago. So I'm going on memory here, but
5 I think I see it under the habit section. It's asking
6 if you currently smoke cigarettes.

7 Q. Yes.

8 A. And I'm pretty sure of this, that if it's a
9 greater than zero number in the
10 cigarettes smoked-per-day answer to, "Do you currently
11 smoke cigarettes?"

12 Q. Okay. What you are saying is Question 3 under
13 habits, "If you currently smoke cigarettes, cigars or
14 pipes, fill in the information below." And there are
15 several questions.

16 Which one of those questions, if any, do you
17 use to identify the current cigarette smoker?

18 A. Well, I'll tell you what I think it is. But
19 if you want me to relate it to the code, I would have
20 to check on this, but I'm pretty sure it's the
21 cigarette section for current cigarette -- under the
22 current -- Question 3: "Do you currently smoke
23 cigarettes?" And then the place where you can answer
24 is, "Cigarettes smoked per day."

25 Q. Okay. So if a person answers with greater

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1 then zero, do you call them a current cigarette smoker?

2 A. That's what I believe it to be. I will check
3 that. I've done that some time ago, but that's what I
4 believe it is.

5 Q. And then who are the nonsmokers?

6 A. Never smokers.

7 Q. All right. That was my question, actually, I
8 had to ask one or the other.

9 ~~Is your other group the never smokers or the~~
10 nonsmokers?

11 A. Never smokers.

12 Q. All right. So how do you identify the never
13 smokers?

14 A. Wait a second while I read this.

15 It looks like Question 2, if you check no.

16 Q. Okay. And how many people -- did you run any
17 checks to see if anyone checked --

18 A. Excuse me.

19 Q. Did you check to see if anyone filled in a
20 "No" for No. 2 but did fill in a positive number for
21 No. 3?

22 A. I probably did at one time, but I don't
23 remember that.

24 Q. Did you develop separate columns for males and
25 females?

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1 A. Separate what's?

2 Q. Separate subtotals for males and females in

3 terms of how many were in never smoker and how many

4 were in current smoker?

5 A. Let me see. I'll do my best to answer that.

6 I include both males and females in the chart that

7 we've been talking about with the squares on it, but I

8 don't have them broken out separately.

9 Q. You don't have it in that chart. When you did

10 these calculations, did you break out males and

11 females?

12 A. They would have had to have been calculated

13 separately at some point, but I don't know that I have

14 that. I have -- the result that I'm using is a

15 combined result.

16 Q. Do you recall whether the populations -- the

17 male and female populations, in terms of the percentage

18 between smokers and nonsmokers or never smokers and

19 current smokers, were significantly different between

20 the sections?

21 A. What is significantly different, are you

22 asking?

23 Q. The percentage of never smokers versus

24 nonsmokers -- I'm sorry -- never smokers versus current

25 smokers.

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1 A. Percentage of never -- I don't think I did
2 that.

3 Q. Okay. So let's go on down here, and I want
4 you to tell me what questionnaire -- now, if you're
5 only using the questionnaire, tell me what question you
6 keyed off of to divide the two populations into -- or
7 to divide the populations according to these criteria.
8 We're on "Eat more high-fat foods."

9 A. Okay. Just a minute. Okay?

10 In the diet section, Category No. 1 has a number
11 of foods. Some of them are in the high-fat category.
12 And I use the category system of Stellman, which, if
13 you will wait a minute, I will see if I can lay my
14 hands on that.

15 Okay. Stellman has a Table II on Page 146.
16 The Stellman article is from NCI, Monograph No. 67.
17 And in that table he has a category called high-fat
18 category.

19 Q. Yes?

20 A. And then he lists pork, franks, sausage, eggs,
21 ham, smoked meats and beef.

22 Q. Pork, frankfurters or sausage which is one --
23 go ahead. I guess -- are you reading from Stellman or
24 are you translating to Question 1 on the questionnaire?

25 A. I was reading Table II --

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1 Q. All right.

2 A. -- of Stellman.

3 Q. All right. I follow that.

4 Now, go to Question 1 if you can, and tell me
5 what foods you used to define high-fat foods?

6 A. Okay. That's what I'm trying to do.

7 Q. I understand. You can keep going.

8 A. Okay. So then with that inspiration from
9 Stellman, I go to the questionnaire on the diet
10 section, and I start looking for items that Stellman
11 mentions. And I'm finding -- I'm going to go down that
12 list: I find pork --

13 Q. Yes?

14 A. -- ham, there is one -- you can help me out
15 here if you see them.

16 Q. I don't have Stellman in front of me, so go
17 ahead.

18 A. Pork, ham, sausage and franks. They are in
19 one category.

20 Q. Right.

21 A. Eggs --

22 Q. Eggs.

23 A. -- beef --

24 Q. What?

25 A. Beef, B-double-E-F.

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1 Q. All right.

2 A. -- smoked meats is a Stellman category.

3 And I think that completes the list.

4 Q. Okay. And each one of those would have in the
5 questionnaire a code number for how many days per week
6 the respondent ate, right?

7 A. Yes.

8 Q. So what do you do with the numbers?

9 A. I add them up for each person and then take
10 the risky upper quartile.

11 Q. So you take the upper quartile and the lower
12 quartile.

13 A. No, the upper quartile is the risky category.

14 Q. And the lower three quartiles are the nonrisky
15 category?

16 A. It's everybody else, right.

17 Q. Okay. How many were in the upper quartile?

18 A. I don't have that number.

19 Q. All right. Did you find that among people in
20 the upper quartile that current smokers had higher
21 all-caused mortality than never smokers?

22 A. I don't recall looking at that specifically.

23 Q. Did you find that among the upper quartile of
24 high-fat food eaters that smokers -- current smokers
25 had higher mortality from lung cancer than never

1 smokers?

2 A. I'm trying to think if I ever did that check.
3 I can't think of any place where I did the calculation
4 like that, so I haven't found it one way or another.

5 Q. Do you have an opinion in the absence of doing
6 that calculation as to whether or not that situation
7 exists, or do you not have an opinion until you do a
8 calculation?

9 A. I couldn't have an opinion on what the
10 calculation is until I did it.

11 Q. I don't mean to belabor this, but asking the
12 same questions for the lower risk group, the three
13 quartiles comprising the lower risk group, did you do
14 any relative risks either for all-caused mortality or
15 lung cancer, or any other disease, between never
16 smokers and current smokers?

17 MR. WILNER: Object to the form of the question,
18 vague and ambiguous.

19 MR. WILNER: All right. Since you object I will
20 do it the long way.

21 Q. In the data that you that you are testifying
22 with respect to, in the population defined as the
23 low-risk group with respect to eating high-fat foods,
24 do never smokers have a lower risk of all-caused
25 mortality than current smokers?

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1 A. I haven't done that calculation. Let me add
2 something: I have other charts that we're going to be
3 coming to, and I don't think -- they are certainly not
4 the same calculation, but they may be responsive to
5 your question. But rather than bring them up, I will
just wait until we get there.

6 Q. Okay. So you don't have an opinion on that
7 issue because you have not done that calculation?

8 A. I don't know what you mean by have an opinion
9 on the issue, but I certainly haven't done the
10 calculation and I can't tell you how it would come out.

11 Q. So that was my point. Do you have an opinion
12 as to whether the all-caused mortality rate for never
13 smokers is the low-risk group that you have
14 previously defined as the lower three quartiles is or
15 is not higher than the all-caused mortality for never
16 smokers?

17 A. No, I would just be guessing at that
18 calculation, since I haven't done it.

19 Q. Okay. Let's go on to "Eat less high-protein,
20 low-fat meals," how is that calculated?

21 A. This category and the next several are all
22 Stellman categories. So I do -- just in case you
23 wanted to go faster -- I go to the same place in
24 Stellman and do the same thing I just did with the

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1 high-fat foods.

2 Q. And since I don't have Stellman in front of me
3 just -- don't belabor it -- but tell me, is there a
4 category in Stellman which says, "Eat less
5 high-protein, low-fat meals"?

A. Just a moment. He has exactly the category,
"High-protein, low-fat meats."

Q. Is it "meats" or "meals"?

A. It says "meats." And I'm taking the category straight out of Stellman. He says "meats"; I say "meats."

Q. All right. Do you also separate these into an upper quartile versus the lower three quartiles?

4. A. Yes, same procedure.

Q. Do that same procedure applied throughout this list on this page as far as the upper quartile versus everyone else?

A. For all the Stellman categories, yes. And that takes us down to "Coffee."

Q. Okay. Why don't you tell me about coffee?

A. Well, coffee, it says right there. It's six or more cups of coffee per day.

23 Q. So there are two groups; one does and one
24 doesn't?

25 A. That's right.

1 Q. And the next is two or more beers per day.

2 That's also a binary decision, separating the
3 subpopulations into two, right?

4 A. That's correct.

5 Q. And then the same for shots of hard liquor per
6 day; is that correct?

7 A. That's correct.

8 Q. How about less supplemental vitamins, how is
9 that done?

10 A. That's separated between the group that takes
11 no vitamins and the group that takes one or more
12 vitamins.

13 Q. We'll talk about this in a minute, but I
14 understand that you did some certain calculations by
15 summing up or by finding the number of people that had
16 a certain number of these so-called risk factors. And
17 I say that just to help explain what my question would
18 be, but that isn't my question.

19 What I'm asking is did you do relative risks
20 for each of these categories for any cause of death
21 individually?

22 A. I think the answer is no, but I remind you
23 again that we're going to be turning to some other
24 charts and there are some relative risks on the other
25 charts. And whether you decide that should provoke a

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1 yes or no, I'm not sure.

2 Q. We may get to that, but let me see if I
3 understand though. You do not have and have not done a
4 calculation which expresses the relative risk of
5 premature mortality to the entire population of CPS-II,
6 or to any subgroup therein, from being in the category
7 of taking less supplemental vitamins versus taking more
8 supplemental vitamins?

9 MR. PLESEC: Object to the form of the question.

10 THE WITNESS: That's correct, if I've understood
11 you.

12 MR. WILNER: Q. Okay. All right. Let's go to
13 the next page. On exercise, limited or no -- "Little
14 or no exercise," how is that computed?

15 A. None and slight is in one category. And
16 moderate and heavy is in the other.

17 Q. None, slight, versus mod, heavy.

18 A. And again, you cannot tell me the numbers in
19 each of those groups because you do not have those
20 calculations?

21 MR. PLESEC: Excuse me, Woody, the court reporter
22 needs you to repeat that.

23 MR. WILNER: I'll ask again.

24 It says, "None, slight versus mod, heavy."

25 That was a remark that you need not transcribe since it

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1 wasn't really a question.

2 Q. So my question was, though, do you have
3 subtotals of the amount of people in each category for
4 never smokers versus smokers who fall into the
5 categories of little or no exercise versus moderate and
heavy exercise?

6 MR. PLESEC: Object to the form of the question.

7 THE WITNESS: I don't have those figures with me.

8 MR. WILNER: Q. Have you previously calculated
9 those figures?

10 A. They would have been in part of the arithmetic
11 to get the result that I'm interested in with this
12 page, but they would have been an intermediate
13 calculation. I don't think I've ever actually looked
14 at that intermediate result, and it may never have even
15 been printed anywhere. I have never seen it.

16 Q. Okay. How about overweight or underweight,
17 how did you perform that calculation?

18 A. I stratified by one-inch height groups, and
19 then took the over- and underweight group as being
20 either more than 20 percent or less than 20 percent of
21 the average for their group.

22 Q. So you went through and calculated an average
23 for each height, rounding off to the nearest inch,
24 right?

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1 A. No.
2 Q. Well, you would have to go through --
3 A. I'm not sure about the rounding off point.
4 Q. Well, forget the rounding off.

5 You calculated an average for each height,
6 which I believe is defined in terms of the nearest inch
7 in the CPS-II questionnaire, correct?

8 A. For each one-inch height group I calculated an
9 average weight.

10 Q. And an average being a mean?

11 A. That's right.

12 Q. And then you inspected to see who was 20
13 percent arithmetically above the mean versus 20 percent
14 below?

15 A. Either 20 percent or more above or 20 percent
16 or more below, I put them in the under- or overweight
17 category.

18 Q. And the two categories are overweight plus
19 underweight versus everybody else, right?

20 A. I don't call it plus. I would say "or."

21 Q. Well, it's a union of these two sets, right?

22 A. I think we're saying the same thing. I just
23 say "or." Either way.

24 Q. So it's not the overweights versus the
25 underweights. It's the overweight/underweight versus

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1 everybody else, right?

2 A. Right.

3 Q. Let's talk about exposure to toxic substances.

4 How that handled?

5 A. If you answer a "yes" to the exposure to toxic
6 substances question.

7 Q. A "yes" or a "no"?

8 A. Yes.

Q. Yes. Thank you.

Not sleeping seven to eight hours per night,
11 where is that -- how is that computed?

12 A. Well, the seven or eight hours a night is one
13 group. And the more than eight or less than seven is
14 the other group.

15 Q. Okay. So I understand that. More than eight
16 or less than seven is one group. And everybody else is
17 no; is that right? Have I got that right?

18 A. You do.

19 Q. Thank you.

20 Not going to church or temple, where is that?

21 A. There is a specific question on that. And so
22 they either answer that they do or they don't. I think
23 it's in the miscellaneous section.

24 Q. And same for participating in group
25 activities?

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1 A. Yes, and in the club meetings also. I think
2 they are right together in the miscellaneous section.

3 Q. And the same with married and not high school
4 graduates?

5 A. Yes, married versus anything else, and not
6 high school graduate versus anything else.

7 Q. Now that ends the list on Page 2. Are there
8 others on pages that I might be missing that you have
9 done computations on that are pertinent to this case?

10 A. No, these are the two and only two pages of
11 this particular type of calculation.

12 Q. I see a page now that says, "Smokers make more
13 lifestyle choices that increase mortality risk." And
14 this is a chart that says, "Relative risk factor equals
15 ratio of smokers to percent of never smokers having
16 total number of risk factors" -- excuse me -- "Ratio
17 percent of smokers to percent of never smokers having
18 total number of risk factors."

19 Okay. If I pick a number of risk factors such
20 as 12 --

21 A. Good choice.

22 Q. Yeah, I saw you did that later.

23 So what you're trying to represent here is
24 that current smokers -- there are three times as many
25 -- not in terms of absolute numbers, but in terms of

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1 rate -- the rate -- the likelihood of a current smoker
2 having 12 is 3 times -- 3 point whatever it is -- 3.2
3 times the likelihood of a never smoker?

4 MR. PLESEC: Object to the form of the question.

5 THE WITNESS: I think it's basically right.

6
7 And just in case you didn't find it. In my
8 stack, the next chart explains I think quite well how
9 that calculation goes.

10 MR. WILNER: Q. Okay. I see that. Now, attempt
11 to relate the total number of risk factors with
12 mortality, right? Well, let me --

13 MR. PLESEC: Object to the question.

14 MR. WILNER: Q. This chart does not say that
15 people who have 14 or more risk factors will have five
16 times the mortality, the all-caused mortality, does it?
17 That's not what your attempting to say here, is it?

18 THE WITNESS: The court reporter didn't get the
19 question and neither did I.

20 MR. WILNER: Let me keep trying. It's kind of a
21 negative question, so I apologize that's awkward but.

22 THE REPORTER: Excuse me, Mr. Wilner, the problem
23 is that words are being cut out.

24 MR. WILNER: Just do the best you can, ma'am.

25 THE REPORTER: All right.

MR. WILNER: Q. Does this chart state that the

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11

1 group of people with 14 or more risk factors have a
2 relative risk of dying of five times those with no risk
3 factors? I'm not trying to mislead you because I don't
4 think it says that. Just humor me if it does.

5 A. I don't intend to humor you, but I can explain
6 what it is.

7 Q. Yes. Let me strike that. I think we'll
8 figure it out.

9 A. I think you got it right.

10 Q. I think I got it right the first time. Let's
11 not clutter it up. I'll go on.

12 My question is where -- maybe I'm missing some
13 pages -- but where have you developed risk factors for
14 either all-caused mortality or any specific disease as
15 a function of the number of these so-called, what you
16 call risk factors, period?

17 MR. WILNER: Object to the form of the question.

18 THE WITNESS: Well I'm not the only one to call
19 these risk factors.

20 MR. WILNER: Q. I don't mean to quibble about
21 that. Let's just see if we can understand what we're
22 talking about.

23 A. Okay.

24 Q. Where have you developed the relative risks
25 resulting from these factors?

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Produced by RTRC

1 A. I'm going to give a two-part answer: First
2 part is -- this may not be quite responsive, but it may
3 be helpful anyway -- the relative risk for these
4 various risk factors are in the literature, for example
5 the Surgeon General report and many other studies. So
6 I have access to and am aware of relative risks for
7 various risk factors, or if not specific relative
8 risks, the understanding in the literature that these
9 are risk factors that increase mortality.

10 Now the second part of answer has to do with
11 what I myself have actually calculated, and we're going
12 to be coming to several charts in which I have
13 calculated some relative risks, and --

14 Q. All right. Well, let me see if we can find
15 those because so far I haven't found them. I've got,
16 "Attributable deaths overstates actual deaths."
17 And then I can out of those. So let me see if I can
18 find some others.

19 Help me find to a chart, if it's possible,
20 that shows where those risk factors have been used to
21 calculate relative risks in the CPS-II study by you.

22 A. Okay. Just a minute I'm going to pick on --
23 there are several charts, but I'm going to pick on one
24 of them because it's an easy chart to explain. And
25 it's got two bars on it, one of the bars has a 1 on

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1 top, and the other has a 0.33 on top.

2 Q. All right. I need to look for it. Does it
3 have a title?

4 A. "Relative risks are affected by nonsmoking
5 behaviors," and I'm looking at the males chart.

6 MR. WILNER: If counsel would help me, was any of
7 this faxed? I don't think so.

8 MR. PLESEC: This was given to you a couple of
9 weeks ago in the stack of potential exhibits to be used
10 with Dr. Wecker.

11 MR. WILNER: Stand by just one moment because it's
12 faster if I find it.

13 I've got, "Attributable deaths overstates
14 actual deaths" -- that's not it -- "Relative risks are
15 affected by nonsmoking behavior," okay. I see that.

16 All right.

17 It says, "All-causes of death, female," and I
18 guess there is one that says, "All-causes of death,
19 male"?

20 A. Right. Pick any one you want.

21 Q. I just don't see the males.

22 So anyway, I can imagine -- what are the
23 numbers for the males?

24 A. .33.

25 Q. .33 versus 1?

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1 A. Yes.

2 Q. And the relative risks you see there are,
3 "Overweight, no exercise, bad diet, never smokers" on
4 one side, right?

5 A. That's correct.

6 Q. And the other one is, "Smokers, average
7 weight, moderate exercise, good diet"?

8 A. That's right.

9 Q. Okay. Have you done any other calculations of
10 the effect of these risk factors other than what I see
11 in the female and what I hear you say on the male --
12 although I haven't quite located that?

13 A. Yes, there are relative risks that are part of
14 -- I'm going to say about half the charts in the stack
15 that we haven't come to yet. Maybe you should direct
16 me to a chart, and I'll tell you whether it has
17 relative risks on it.

18 Q. I don't have very many more.

19 A. Uh-oh.

20 Q. Now, do you have a number on the bottom of
21 these charts?

22 A. No, I don't. But if you don't have all the
23 charts that's not very good. Maybe we should get you
24 the charts.

25 Q. Well, all right. We might need to. So let's

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1 try to identify what it is that we have and what it is
2 that we don't have. Let's go back to the one that we
3 just talked about and let me ask you a few questions
4 about that.

5 MR. PLESEC: Counsel, let me just interject for a
6 second. I'm not sure if this will be helpful to you at
7 all, but there was a list of RJR exhibits that was
8 developed for purposes of this litigation, and there
9 are a series of numbers running from No. 1058 through
10 1073, and then 1376 through 1386, and then 1705, 1720,
11 1721, 1722. Those documents (sic) represent document
12 numbers for the exhibits that were provided to you as
13 possible exhibits to be used in connection with
14 Dr. Wecker's testimony.

15 MR. WILNER: Okay. I see that, and that was a
16 help because now I can see we have them in exhibit
17 order so I wasn't aware of the up to 1376. And now
18 that I have that -- actually I go to 1378. All right.
19 Well, anyway, I think we can work it out.

20 Q. Let me go back to 1071, because I happen to
21 have that one in front of me.

22 A. But I don't have those numbers myself, so just
23 describe it.

24 Q. "Relative risks are affected by nonsmoking
25 behavior, all-cause of death, females."

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1 A. Females. Okay. I have it.

2 Q. Did you do any similar calculations for any

3 specific cause of death other than all-cause of death?

4 A. Yes.

5 Q. What causes of death?

6 A. Just a moment. I have charts that you have,

7 and you can read in the subtitle where it speaks of,

8 "Ten causes selected by Surgeon General"?

9 Q. "Relative risk of death from cirrhosis of the

10 liver"?

11 A. That's another one.

12 Q. Any. "Attributable death overstates actual

13 death"?

14 A. Yes.

15 Q. "73,000 overweight or underweight, high blood

16 pressure," is that the one you mean?

17 A. Just a minute.

18 Q. "Selected causes, lung cancer, upper airway

19 digestive cancer, chronic obstructive pulmonary

20 disease, and vascular disease"?

21 A. That sounds right, but I'm not sure we're

22 looking at the same chart. But you sound like you're

23 finding an example of what you were looking for.

24 Q. Actually that was an attributable death. I

25 was really more interested in relative risks.

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1 A. But they were calculated and necessarily so to
2 produce this chart. You asked if I calculated them.

3 Q. Yes, okay.

4 Let me ask, do you have a chart that is
5 analogous to the chart which we have previously talked
6 about that says, "Relative risks are affected by
7 nonsmoking behavior, all-cause of death, females" --
8 let's assume I'm looking at that chart.

9 Do you have anything analogous to that that
10 concerns specific causes of death rather than
11 all-caused mortality, in that format?

12 A. [REDACTED] in that format, no

13 Q. Okay. Do you have an opinion as to whether
14 smokers [REDACTED] are of average weight, get moderate
15 exercise, and have a good diet are more or less likely
16 to die of cancer than never smokers who are overweight,
17 get no exercise, and have a bad diet?

18 MR. WILNER: Object to the form of the question.

19 THE WITNESS: I have the opinion it would probably
20 depend on what the diet and exercise was. But for some
21 diets, maybe yes; for others, maybe no.

22 MR. WILNER: Q. Well, using exactly the criteria
23 that you used in the graph that we're looking at to
24 divide the people into two categories?

25 A. No, I haven't done that calculation. I was

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1 speaking more generally.

2 Q. Okay. So if I were to -- so speaking of
3 exactly the calculation that you did to produce this
4 chart, which has assigned the numbers of 1 and .52 to
5 the two columns, my question is just so I'm clear --
6 and I realize it's repetition, but I want to make sure
7 I'm not misstating anything -- you do not have an
8 opinion as to what shape this graph would be were you
9 looking for -- if you were looking at lung cancer
10 mortality versus all-caused mortality?

11

MR. WILNER: Object to the question.

12

THE WITNESS: And with no other change?

13

MR. WILNER: Q. Right.

14

A. I haven't done that calculation. And I don't
15 have an opinion about how it comes out until I do it.

16

Q. Okay. Let me look at, then, something that I
17 see here called, "Deaths attributed to risk factors
18 overstate actual deaths."

19

A. Okay. Stand by.

20

Could you read the title again?

21

MR. WILNER: Off the record.

22

(Discussion off the record.)

23

MR. WILNER: Q. I'm looking at a chart called,
24 "Deaths attributed to risk factors overstate actual
25 deaths."

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1 A. Stand by. I'm going to look for that.
2 Q. Okay. Standing by.
3 A. Okay. I found it.
4 Q. The percentage on the right which says, "10
5 percent killed," in quotes, "by overweight or
6 underweight. 13 percent killed by high blood
7 pressure," where did those numbers come from?
8 A. You've got to wait another minute because
9 there's more than one chart with the same title.
10 Q. I'm sorry.
11 A. I think I know which one you're looking at.
12 Q. Well, look at either one you want. But the
13 one I have just says, "Deaths attributed to risk
14 factors overstate actual deaths, U.S. smokers."
15 A. There are several charts that have exactly
16 that title.
17 Q. Right. And this one starts, "165 percent
18 killed by other risk factors."
19 A. That makes it unique, and I have it.
20 Q. Tell me where the percentages that are used --
21 that are expressed in the text are derived.
22 A. I calculated them.
23 Q. Okay. Give me an idea of how did you that.
24 A. It's the standard calculation, same as Surgeon
25 General, for attributable fractions.

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1 Q. When you say you calculate them, you calculate
2 them using the CPS-II database?

3 A. That's right.

4 Q. Okay. So you were using specific -- you were
5 using all-caused mortality in the study period, right?
6 These are just deaths.

7 A. Yeah, I think this is all-caused. Just a
8 moment.

9 Yes, it's all-caused.

10 Q. For instance, if we pick the 40 percent killed
11 by lack of exercise, let's just pick that one for
12 instance, the attributable risk calculation would be a
13 derivation of the relative risk calculation that you
14 did using the two populations that you defined earlier
15 between people who exercise and people who don't?

16 MR. PLESEC: Object to the form of the question.

17 MR. WERNER: Q. Did I get that right?

18 A. I think right. It's the moderate and heavy
19 group as a base group.

20 Q. Right.

21 A. And then the risky groups are the slight
22 exercise group and the none-at-all exercise group.

23 Q. Right, I understand that. In the same way
24 that we previously talked, that's what I mean to
25 express.

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1 So you obtained a relative risk between the
2 people who fell into those two exercise categories,
3 right?

4 MR. PLESEC: Object to the form of the question.

5 THE WITNESS: I did the none category and compared
6 it to the moderate-heavy category. And then I also did
7 the slight category and compared it to the
moderate->heavy category, which is not a departure from
the method of the Surgeon General. That's the way they
do it.

11 MR. PLESEC: Q. So what was the relative risk of
12 all-caused mortality between the nonexercisers and the
13 moderate-to-heavy exercisers?

14 A. I think I've got that number here, so if
15 you'll just stand by, I actually have that one.

16 Q. Okay.

17 A. 1.81.

18 Q. And what was the relative risk between the
19 slight exercisers and the moderate-to-heavy?

20 A. 1.64.

21 Q. Which of those did you use in calculating the
22 attributable percentage of 40 percent?

23 A. Both. I used none for the none category and
24 slight for the slight category.

25 Q. And you factored in the number of people in

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1 each population to do that calculation?

2 A. Right.

3 Q. Did you do similar calculations for any other
4 cause of death other than all-cause?

5 A. Yes.

6 Q. For which?

7 A. There are some charts here that look something
8 like the ones you're looking at now but have different
9 titles.

10 Q. Yes.

11 A. And they say in the subtitle, "For the ten
12 causes selected by the Surgeon General." And then
13 there are some other charts that look something like
14 these charts, and they say, "Attributable deaths from
15 selected causes."

16 Q. Yes.

17 A. Well, that's my answer.

18 Q. Okay. Let me look at another chart then.

19 I see a chart now that says, "Attributable
20 deaths overstates actual U.S. deaths in 1985 of persons
21 age 35 to 69 from all-causes versus attributable deaths
22 from selected causes."

23 A. Okay. Just a moment. I think I have your
24 chart.

25 Q. All right. So my first question is is this

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1 the chart that you were -- that you could use to
2 illustrate the calculations of attributable risks from
3 other causes than all-caused mortality?

4 A. This is one of them. There are several charts
5 like this.

6 Q. All right. So the numbers that appear in the
7 columns are what, "73,000 overweight." What does
8 73,000 represent?

9 A. I haven't found that yet. Stand by.

10 A. Stand by. I found that.

11 A. The first thing to point out is that that
12 73,000 is one of the numbers that I revised and sent
13 you in the revised fax.

14 Q. Thank you. What's your revised number?

15 A. It's at 58,000.

16 Q. Okay.

17 A. And your question is, what does that
18 represent?

19 Q. Yes, how is that number derived?

20 A. It's an attributable-deaths calculation, but
21 not for all-causes. It's only for the causes described
22 at the bottom of the page.

23 Q. Is it attributable to the U.S. population? In
24 other words it's a number, not a percentage. How is
25 the raw number, 58,000, derived?

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1 MR. PLESEC: Object to the form of the question.

2 THE WITNESS: I think the short answer is yes, it
3 is U.S. population attributable deaths from the
4 selected causes at the bottom of the page.

5 I can go further on that but maybe that was
6 enough.

7 MR. WILNER: Q. Well, is that obtained by
8 multiplying ten percent, which was your overweight or
9 underweight-filled fraction, by the total number of
U.S. deaths?

11 MR. PLESEC: Object to the form of the question.

12 THE WITNESS: No, nothing like that.

13 MR. WILNER: Q. All right. Well tell me, then,
14 how the 88,000 got to be.

15 A. First, it's an attributable death calculation,
16 like the ones that the Surgeon General does and like
17 the ones that Peto does, which means that it combines
18 relative risk and prevalence according to a formula
19 that I'm sure you're familiar with that has some minus
20 ones in it.

21 Q. Yes.

22 A. Well I'm doing that formula, but I need to
23 have the inputs, which are a relative risk and a
24 prevalence.

25 Q. And prevalence?

1 A. And the prevalence I get -- I'm going to tell
2 you where I get those now, if you want.

3 Q. Yes.

4 A. The relative risk I calculate from CPS-II.

5 And it's a relative risk from not all-causes, but the
6 selected causes described at the bottom of the page --

7 Q. Yes.

8 A. ~~for~~ for -- let's just do -- I happen to have
9 the exercise page open because we talked about that --
10 say for the none category versus the moderate and ~~heavy~~
11 category which we've talked about before so it makes
12 sense.

13 And then I get a prevalence of, in this case,
14 exercise, for no exercise, and I get that one out of a
15 Kaperson article, which I can I think fetch for you
16 here in a minute.

17 "1986 Public Health Report." It comes from
18 NHIS.

19 Q. Well, did they use exactly the same standards
20 for measuring exercise as the CPS-II?

21 A. They have similar categories, but they call
22 it, for example, sedentary. And I used the sedentary
23 category for what CPS-II calls none. And they call
24 irregularly active a category. That would be like the
25 slight category.

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1 Q. Do you have the Kaperson article in front of
2 you?

3 A. Yes, I just grabbed it.

4 Q. Thank you. Can you give me the citation,
5 please?

6 A. Yes. It says, "November" hyphen "December
7 '86, Volume 101, No. 6."

8 Q. Of what?

9 A. Then it doesn't say any more. I'm looking to
10 see where else we can go.

11 Q. It's apparently in something called "Public
12 Health Reports."

13 Q. Okay. What was the prevalence of lack of
14 exercise in that article?

15 A. For males?

16 Q. Okay. For males.

17 A. 24.8 percent.

18 Q. 24.8 percent had lack of exercise and
19 everybody else had exercise according to that?

20 A. Yes.

21 Q. What was the prevalence of lack of exercise in
22 the CPS-II population?

23 A. As self-reported, I don't have that figure.

24 Q. Did you check or did you correlate the outside
25 prevalence estimates for the U.S. population with that

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Battelle
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1 of the CPS-II?

2 MR. PLESEC: Object to the form of the question.

3 THE WITNESS: For exercise, do you mean?

4 MR. WILNER: Q. Well, for anything, for exercise
5 diet, social support?

6 A. Let's take them separately because I think
7 exercise is treated differently than the others. So
8 let's stick with that one for a moment.

9 Q. Okay.

10 A. I think the self-reported exercise, either by
11 CPS-II or other self-reporting approaches to
12 exercise -- it is understood that people exaggerate how
13 much exercise they are doing. And so though I don't
14 remember the numbers, I suspect that there was a
15 self-reporting of more exercise in CPS-II than this
16 particular study that tried to get at that number. But
17 I don't have the figures so I'm going on vague memory.

18 Q. What about on healthy diet, where did you get
19 prevalence data from that?

20 A. I think in all the other cases I calculate
21 that from CPS-II. Let me just check.

22 Yes, all the other categories are CPS-II that
23 I calculated myself.

24 Q. Have you reviewed a report prepared by the
25 Battelle Institute for the Centers For Disease Control

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1 And Prevention entitled, "Final report, smoking
2 attributable mortality; control for confounding," dated
3 February 1st, 1997.

4 MR. PLESEC: Would you repeat that again, please.

5 MR. WILNER: Yes, have you reviewed a report,
6 which report is authored by the Battelle -- I believe
7 it's Battelle Laboratory, but it just says "Battelle,"
8 B-A-T-T-E-L-L-E -- which report is titled, "Final
9 report, smoking attributable mortality; control for
10 confounding," and which report is dated February 1st,
11 1997?

A. ~~you~~ don't think so.

15 Q. Okay. Were you aware that the Center For
16 Disease Control had commissioned the Battelle
17 Laboratory to perform a study on the control for
18 confounding of the CPS data?

1 Gram

18 Q. Are you currently reviewing the literature on
19 the issue of confounding of CPS-II data?

20 A. No, but you inspire me to read this report,
21 although I'm not doing -- I would be a smart-aleck if I
22 said, "Right now what I'm doing right now is answering
23 your questions."

24 But the gist of your question is different
25 than that, and so I probably will look at this since

1 you brought it up.

2 Q. Thanks. The chart that we've been discussing,
3 the "Attributable deaths overstate actual deaths," in
4 the category "Unhealthy diet," the prevalence data and
5 relative risk data have been obtained from CPS-II data;
6 is that correct?

7 A. Yes.

8 Q. [REDACTED] the attributable risk has been quantified
9 by using the CPS-II relative risk and the CPS-II
10 prevalence and the United States population?

11 MR. WEINER: Object to the form of the question.
12 It's not even a question.

13 THE WITNESS: I'm thinking, just a minute.

14 I think the answer is yes.

15 MR. WEINER: Q. Okay.

16 A. Would you ask that again?

17 Q. No, I couldn't possibly remember.

18 A. Then don't trust my answer.

19 Q. Let me see if I can work through this again,
20 and it's just -- I apologize if my question was
21 unclear.

22 A. Do you want me to just volunteer something and
23 maybe it will clear it up?

24 Q. Well, yeah, I want you to volunteer something.
25 Let's start with the equation for attributable risk.

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1 And tell me how to write it down, and then we'll work
2 from that concrete point. Okay?

3 A. Attributable fraction?

4 Q. Yes, attributable fraction.

5 A. Is going to be the sum of prevalence, left
6 parenthesis, relative risk minus one, right
7 parenthesis, divided by the same expression plus one.

8 So to do that calculation you need prevalences
9 and relative risks, and I get both of those from the
10 CPS-II data except for the prevalences that had to do
11 with exercise that we already talked about.

12 Q. I understand.

13 A. And the result is an attributable fraction,
14 which is expressed how?

15 A. As a fraction.

16 Q. As a fraction. So for instance, the
17 attributable fraction for unhealthy diet, using the
18 CPS-II relative risk and prevalences was what?

19 A. It's an intermediate calculation. I don't
20 have that.

21 Q. Is it not the same fraction that you
22 calculated in this earlier chart of 51 percent?

23 A. No, because I've changed -- the deaths that
24 I'm looking at are different, and so it's not the same.

25 Q. The deaths, you mean the causes of death were

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1 different?

2 A. Yes.

3 Q. But the concept of generating the fraction is
4 the same. You're just generating it for different
5 causes of death; is that fair?

6 A. That's correct. The attributable fraction
7 calculation is, let's say, in spirit the same every
8 time I do [REDACTED].

9 Q. And in this case of this chart that we've been
10 looking at, No. 1382 -- although I don't have that
11 number -- you added the deaths from lung cancer, upper
12 airway digestive cancer, COPD, and vascular disease,
13 correct?

14 A. I didn't add them. I would say I included --
15 adding is maybe not wrong, but I would say I included
16 the deaths from those categories in calculating the
17 relative risks.

18 Q. I understand. And you then obtained an
19 attributable fraction as an intermediate calculation,
20 which was a number less than one and could be expressed
21 as a percentage?

22 A. That's right.

23 Q. And then you multiplied the percentage times
24 something to obtain 310,000 in the case of unhealthy
25 diet?

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1 A. Yes.

2 Q. What number did you multiply the fraction
3 times?

4 A. Just a moment, I will find it.

5 I used deaths from selected causes that I find
6 in a Peto document, which I call Peto 1994.

7 Q. Yes, I understand.

8 For the U.S. population?

9 A. Just a moment.

10 Yes. I finally found it.

11 Q. Is that number not 686,000 as the sum of
12 deaths from these selected causes?

13 A. No, because I'm following Peto's methodology,
14 and he does his calculation separately by five-year
15 age groups. That's why it took me a while.

16 Q. What number does he use?

17 A. He uses -- well, there are two reasons the
18 number is different: One is I'm looking at selected
19 causes, and the 686,000 is all-causes. And the second
20 reason is that he counts out the attributable deaths to
21 selected causes separately by five-year age groups, and
22 so he would -- he does it in pieces.

23 Q. Well, what do you multiply your attributable
24 fraction by to get 310,000?

25 A. Where are you seeing 310,000? Okay. On the

1 unhealthy diet section. I was on another page.

2 But to get any of the number of attributable
3 deaths, I multiply by the number of deaths from the
4 selected causes in a five-year age group, and then I
5 have to do it for the next five-year age group, and
6 then I do it for the next five-year age group, and I
7 add them all together.

8 Q. So you sum all the five-year age groups, using
9 the same attributable fraction for each?

10 A. No, I do the relative risks separately also by
11 five-year age group because that's the way he does it.

12 Q. Do the relative risk separately for each
13 five year age group in CPS-II?

14 MR. PLESEC: Object to the form of the question.

15 THE WITNESS: Yes, I was explaining the basic
16 calculation. In the application by Peto, he happens to
17 do it by five-year age groups, then of course
18 separately for males and females.

19 MR. WILNER: Q. Okay.

20 A. But once you understand how to do it once,
21 then you just keep doing it.

22 Q. Now, where does the number, 686,000 come from?

23 A. Just a moment. I'll get it. It's a Peto
24 number. I'm going to find the page. Just a moment.

25 You can find it in Peto of '94. It's on Page

1 534.

2 Q. All right. I just don't happen to have that
3 in reach, although I could find it. But to save time,
4 what does that number represent?

5 A. Males and females, deaths from all-causes,
6 United States, 1985.

7 Q. Oh, 1985.

8 A. So that would be the all-caused mortality in a
9 year in the United States?

10 A. Right. Look at the subtitle -- I tried to get
11 it right -- of the chart.

12 Q. Right, I know that's what it says, and that's
13 what I was confirming in my question. That's fine.

14 A. Let me turn to another chart, please.

15 Q. Okay.

16 Q. "Relative risks from death from cirrhosis of
17 the liver."

18 A. Just a moment. Okay.

19 Q. Are these relative risks that you have
20 computed, or were they taken from other publications?

21 A. I computed them.

22 Q. Did you break down the -- oh, okay. Just a
23 minute.

24 Q. This has a population defined as light
25 smokers. Who are the light smokers?

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1 A. Current cigarette smokers with 1 to 20
2 cigarettes per day.

3 Q. Okay. Now, did you calculate this in an
4 effort to demonstrate confounding of tobacco mortality
5 with alcohol consumption?

6 MR. PLESEC: Object to the form of the question.

7 THE WITNESS: It's calculated to demonstrate the
8 effects of confounding.

9 MR. WIENER: Q. And did you understand that this,
10 the confounding that you were attempting to illustrate
11 was primarily from the effects of alcohol consumption?

12 A. I would say it the other way around, that it's
13 confounding because the risk is understood not to be in
14 fact due to smoking.

15 Q. And that would be understood by whom?

16 A. It's understood by me, but it's a medical
17 thing.

18 Q. And to what do you attribute, then, the
19 observed relative risk?

20 A. Why it goes up? I attribute that to
21 confounding.

22 Q. Confounding by what?

23 A. I'm not sure how to answer that.

24 Q. What factors are confounding the results?

25 A. Whatever it is that causes cirrhosis of the

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1 liver appears to be found in smokers and heavy smokers
2 more so than never smokers.

3 Q. Well, do you have any biologic explanation?

4 A. I understand the explanation to be
5 statistical, that smoking is not the cause of
6 cirrhosis.

7 Q. And what is the cause of cirrhosis?

8 A. Well, you will have to ask a medical person.

9 My lay understanding is it has to do with alcohol
10 consumption, but I don't need to know that to make the
11 point I want to make with this chart.

12 Q. Have you done any analyses to term what other
13 factors may be confounding cigarette smoking?

14 A. [REDACTED]

15 Q. What other factors may be confounding it in
16 the case of cirrhosis?

17 A. The way you put the question -- and I know I
18 have an obligation to answer your question even if I
19 don't like it -- but it seems upside-down from the way
20 my opinion and purpose is with this chart.

21 Q. Have you calculated the number of light,
22 heavy, and never smokers who drink alcohol?

23 A. No.

24 Q. Okay. Have you calculated whether more never
25 smokers than current smokers eat high-fat foods?

1 A. I don't think I've done that calculation.

2 Q. Have you calculated whether more smokers
3 versus never smokers are overweight?

4 A. Oh, let me -- I'm sorry. Can I pause a
5 minute?

6 Q. Yes.

7 A. Maybe we should take a break. I'm getting
8 tired.

9 But I should have said a moment ago, yes,
10 that's all those charts we started talking about, the
11 ones with the little squares on them, when we first got
12 started.

13 Q. Yes, I understand. And just let me complete
14 the thought, then certainly we can take a break.

15 But did you develop percentages between
16 smokers and nonsmokers for those boxes?

17 A. Yes, they were developed to allow me to know
18 whether smokers, for example, eat more fried foods than
19 never smokers.

20 Q. All right. And so when you come back I would
21 like to have those percentages given to me, since I
22 don't think they are on the chart itself. Mine just
23 has an open box.

24 A. I'm going to have to take a break, but when I
25 come back I can at least tell you easily which one has

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1 more.

2 MR. WILNER: Okay. That's fine.

3 THE WITNESS: Okay. Let's take a break. We'll
4 just leave you on the machine.

5 (Brief recess.)

6 MR. WILNER: Q. Okay. Turning to the lifestyle
7 choices chart, the eating and drinking choices, do you
8 know the percentages of smokers and never smokers who
9 fall into these categories?

10 A. I don't have the percentages, but I can tick
11 down and tell you which is the greater.

12 Q. Where is the number that represents the
13 fraction, physically where is it kept?

14 A. I would have to go asking. It's probably on a
15 computer.

16 Q. But you can't testify as to what that number
17 is right now?

18 A. No, and I hadn't intended to testify as to the
19 number. The point was just one of them do more.

20 Q. All right. I understand. Just a minute. I
21 was all ready for that, to write down the numbers. So
22 let me switch over.

23 So you can't testify how many current smokers
24 versus never smokers are overweight or underweight?

25 MR. PLESEC: Object to the form of the question.

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1 THE WITNESS: I can't tell you the answer to that
2 in number terms right now. I can just tell you whether
3 -- referring to the chart here on eating and drinking
4 choices -- whether smokers, for example, eat more fried
5 food than never smokers, and on down the list.

6 MR. WILNER: Q. Other than the effect of smoking
7 on cirrhosis, on the likelihood to die of cirrhosis of
8 the liver [REDACTED] have you done any other calculations of the
9 effect of cigarette smoking on different causes of
death? [REDACTED]

11 MR. [REDACTED] SEC: Object to the form of the question.

1 THE WITNESS: I didn't do a calculation showing
2 the effect of smoking on cirrhosis of the liver.

14 MR. WILNER: Q. Okay. I'm sorry to have placed
15 it in that respect. Let me see if I can be more clear.

16 The chart we talked before, that my number is
17 1384, shows relative risks for death from cirrhosis of
18 the liver as a function of category of smoking, i.e.,
19 never smokers, light smoking, and heavy smoking. Is
20 that not correct?

24 A. Yes.

22 Q. Other than cirrhosis of the liver, did you do
23 any similar calculations showing the relative risk
24 between heavy smokers and never smokers for various
25 diseases?

1 A. Specifically heavy versus never?

2 Q. Heavy, light, or never, or any combination of

3 those.

4 A. Well, let's take an example. See, we've

5 already been on a page in which we have smokers on one

6 bar and never smokers on another.

7 Q. Yes, but that was not about cause of death, as

8 I understand it. That just was about habits.

9 A. No, that's relative risks of mortality.

10 Q. Okay. Let me see if we can get back to that.

11 I don't mean to be obtuse, but please tell me what

12 chart you mean, and I'll try to find it.

13 A. Let's take the one that has 0.33 on the

14 right-hand side.

15 Q. Okay. The 0.33, that was a combination of

16 many factors, smoking, being of average weight,

17 moderate exercise, and good diet. Was it not?

18 A. Right.

19 Q. Do you have any similar charts that show the

20 effect of smoking without these other variables?

21 MR. PLESEC: Object to the form of the question.

22 THE WITNESS: Well, your question is about do I

23 have anything similar. It's hard to know where to draw

24 the line.

25 MR. WILNER: Q. All right.

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1 A. I think we've covered every kind of chart that
2 I have by now.

3 Q. All right.

4 A. And so --

5 Q. Let me go on to another question.

6 What is the -- in the CPS-II data, what is the
7 relative risk between never smokers and current smokers
8 for dying of lung cancer within the study period?

9 A. What study period -- do you mean CPS-II?

10 Q. Yes.

11 A. I would have to look that up in the Surgeon
12 General report. I don't have it at the tip of my
13 tongue.

14 Q. Okay. You do not question that statistic in
15 the Surgeon General report?

16 A. Well, I question the interpretation of it.

17 Q. I understand. But you don't question the
18 statistic.

19 A. I question the interpretation of the
20 statistic. I think that's an important concern.

21 Q. I understand. As far as the computation of
22 relative risk between the category of smokers and never
23 smokers that the Surgeon General has done, do you
24 question that?

25 MR. PLESEC: Object to the form of the question.

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1 THE WITNESS: I don't -- I can't think of a
2 mechanical concern in the application of the method.
3 My concern is with respect to how the numbers are
4 interpreted.

5 MR. WILNER: Q. Okay. Are you aware of any
6 single risk factor that is associated with a relative
7 risk of dying of lung cancer that is as high as that
between ~~non~~smokers and current smokers -- I'm sorry --
never smokers and current smokers?

8 MR. PLESEC: Object to the form of the question.
9 THE WITNESS: Could you say that again. Any
10 relative risk?

11 MR. WILNER: Q. Yes. Are there any other risk
12 factors that produce relative risk as high as the
13 relative risks produced by smoking?

14 A. I think there probably are. I don't have them
15 in front of me, but I think there probably are.

16 Q. Do you think there are probably relative risks
17 as high for the production of lung cancer?

18 A. Yes, but since I haven't got one here to show
19 you, I don't know how to support that. I have to go
20 looking through the literature.

21 Q. Based on the CPS-II data, are you aware of any
22 risks that are as high?

23 A. I would still have to go digging through the
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1 literature and see whether they were based on CPS-II
2 data or whether they are based on some other data.

3 Q. Based on your calculations of CPS-II data?

4 A. I haven't done all those kinds of
5 calculations. I would go into the literature to deal
6 with this question.

7 Q. Would it be fairly easy to compute the
8 relative risk of dying of lung cancer between smokers
9 and never smokers in the CPS-II population?

10 MR. PLESEC: Object to the form of the question.

11 THE WITNESS: It's expert kind of work. It's not
12 so easy that just anybody can do it.

13 MR. WILNER: Q. Well you could do it, couldn't
14 you?

15 A. Yes.

16 Q. And you would count the number of nonsmoker
17 deaths, divide by the never smoker population and then
18 count the number of smoker deaths and divide by the
19 smoker population?

20 MR. PLESEC: Object to the form of the question.

21 MR. WILNER: Q. Is that basically it?

22 A. It's the right idea.

23 Q. But you have not done that for specific risk
24 factors and lung cancer in the CPS-II data?

25 MR. PLESEC: Object to the form of the question.

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1 THE WITNESS: I don't think so. But if the charts
2 that we've gone through have that material on them or
3 something related to that, then you have those charts.

4 MR. WILNER: Q. I understand.

5 A. But as far as if I were making the judgement
6 as to whether I had them, I don't think so.

7 Q. And not to mislead -- I mean to try and
8 understand your charts -- one that we did look at had a
9 combination of diseases including lung cancer, but did
10 not appear to separate out lung cancer. Is my
11 recollection consistent with your recollection about
12 that chart?

13 MR. WILESEC: Object to the form of the question.
14 Woody, it may be helpful if you point to the chart
15 you're talking about.

16 MR. WILNER: We can't point because we are just
17 over the same, and we don't have numbers on them that
18 he knows, so I'm trying to do my best.

19 Q. But we looked at the attributable fraction
20 chart. And on the bottom of the chart it says,
21 "Surgeon general's categories of death," and it says
22 "lung cancer, COPD," and it had two other categories.

23 Do you remember that chart?

24 A. Yes, I have several like that.

25 Q. Okay, fine. So my understanding is that those

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1 treated those causes of death together and did not
2 isolate lung cancer from the rest?

3 A. You're understanding correctly. Your
4 understanding is correct.

5 Q. You have my curiosity back about that chart.
6 Unfortunately they are not in order, so that's why I
7 look a little time. Okay, I've got it.

8  I asked you this, I apologize. Just tell
9 me that you've already answered and I'll go on.

10 I see this chart that we spent so much time on
11 that says, "Selected causes, lung cancer, upper airway
12 digestive, obstructive pulmonary disease, and vascular
13 disease." And this is the chart that has the numbers
14 beginning 73,000 -- though you corrected that 58,000 --
15 79,000 for high blood pressure and so on.

16 Now my question is, we talked about obtaining
17 the prevalences and the relative risks, and you said
18 that you obtained the prevalences and the relative
19 risks from the CPS-II data, except in the case of
20 exercise when the prevalence came from some other
21 article. Are we still on the same page basically?

22 A. Yes.

23 Q. Did you tell me what the relative risks were
24 for these various factors? -- I don't mean to be
25 tricky. Let me just ask you.

1 Can you tell me the relative risks that you
2 used for these various factors-- including
3 underweight, high blood pressure, lack of exercise, et
4 cetera?

5 A. I jotted down one example because I would then
6 be able to take you through it in detail.

7 Q. Yes?

8 A. But here's the problem -- and we've discussed
9 it -- this is a calculation we're looking at that is
10 done by [redacted]-year age groups.

11 Q. Okay. Can you tell me the relative risk for
12 any of the [redacted] age groups?

13 A. Yes, I've got one for one age group, and all
14 the others are done similarly, but I don't have those
15 other numbers.

16 Q. Which age group do you have?

17 A. 35 to 39, males.

18 Q. 35 to 39?

19 A. Yes.

20 Q. Do you have anything older than that?

21 A. No, not that I can tell you about. The rest
22 of the calculations goes up to age 69.

23 Q. Okay. But somewhere there exists the
24 calculation of relative risk for these selected causes
25 of death for these risk factors in the CPS-II

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1 population?

2 MR. PLESEC: Object to the form of the question.

3 THE WITNESS: That number had to be calculated in
4 the course of making the calculation that I've
5 presented here. And so it's calculable, but I only
6 specifically asked that I get one example, and I worked
7 my way through it with my pencil here. And I have the
relative risks, and I can take you through that one.

8 MR. WILNER: Q. I'm going to ask you that in a
9 minute. Just a minute.

10 A. All right. I have just noticing that in your
11 14 risk factors that we see that high blood pressure
12 was one of the factors.

13 MR. PLESEC: Excuse me, Woody, your statement got
14 blurred out somehow. We didn't get all of the words

15 MR. WILNER: I'll say it again.

16 Q. I didn't see that high blood pressure was one
17 of the factors that we talked about earlier. Is that
18 because you don't characterize it as a lifestyle
19 choice?

20 MR. PLESEC: When you say "earlier," are you
21 talking in connection with a particular chart?

22 MR. WILNER: Yes, the chart that we looked at that
23 says, "Lifestyle choices that increase mortality risk."

24 THE WITNESS: Right. It doesn't belong on that

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1 chart.

2 MR. WILNER: Q. I understand. Where did the high
3 blood pressure come from on the CPS-II chart?

4 A. CPS-II data.

5 Q. On the questionnaire?

6 A. Yes.

7 Q. All right. Tell me the relative risk, then,
8 for the category, what is it, 34 to 39 or something?

9 A. 35 to 39, males.

10 For no exercise it was 7.58. For slight
11 exercise 37.

12 Q. Okay.

13 A. And that's the answer.

14 Q. What about unhealthy diet?

15 A. I don't -- I only got one here because I
16 didn't think you would have the patience to go through
17 a hundred or 200 of them.

18 Q. You don't have the relative risk for anything
19 else but the exercise that you told me?

20 A. I'm looking to see if I might by accident have
21 it, but there are so many of them I'm pretty sure I
22 don't. Just a moment.

23 No, that's the only one that I've marked down.

24 Q. Have you got any report that has these
25 intermediate calculations that you would use to refresh

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1 your recollection if you were to testify about these
2 matters?

3 A. No, I don't, but I certainly wouldn't testify
4 with respect to all those details. I would do one as
5 an example and then say I did all the other age
6 categories and gender categories in the same way.

7 Q. I understand. I'm just asking if you have the
8 documentation supporting these charts, is available to
9 you, and that you might use in connection with your
10 testimony.

11 A. I hadn't expected to use anything but this
12 chart.

13 Q. Is there, in fact, supporting documentation
14 from which this chart or these charts were derived?

15 A. I'm trying to find something that might fit
16 that category.

17 Q. I simply would have to prepare that. It
18 would probably be quite a few pages, and I'd have to
19 format it. It's not a terribly hard thing to do, but I
20 haven't got it.

21 Q. Well, when you prepared the chart, what did
22 you have at your disposal to use as a basis for the
23 numbers that were used the chart?

24 A. The final result of the calculation, which is
25 the numbers that go in the chart.

1 Q. But the final result of the calculation was in
2 written form or in -- well, what form was it in?

3 A. When I saw it, it was in the form of this
4 chart, and I would have to go quizzing the people that
5 helped me here to get you further details on that as to
whether they were looking at a screen or what.

6 Q. So the chart was prepared by others -- other
7 people than yourself?

8 A. At my direction.

9 Q. [REDACTED] the numbers that were used to fill in the
10 chart were done -- the actual numbers were filled in by
11 others from calculations that you did not see done?

12 A. [REDACTED] was involved in the process. I did not
13 actually [REDACTED] in front of the computer and make this
14 particular chart. I had it made at my direction.

15 MR. WILNER: Okay. For convenience of counsel,
16 while you're out there, we'll request as humbly as we
17 can for [REDACTED] supporting information that the doctor
18 might have to support any of the numbers or
19 calculations in the chart, whatever that might be.

20 MR. PLESEC: Which chart are you talking about?

21 MR. WILNER: Any of these charts that we have
22 talked about. I think there are similar enough so that
23 that would apply to all of them. So if there are,
24 there are, there are. If there are not, there are not.

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I understand. If there are tables or calculations, printouts that support these numbers, we would ask for them. And I guess you take that from there.

MR. PLESEC: Okay. We'll take your request under advisement.

MR. WILNER: I understand. That's fine.

Also, let me ask this: Dr. Wecker, I deposed you in a previous case known as Clark versus Leggett & Myers [redacted] last summer. I don't know if you remember that, but I did. And in that case I asked for you to provide to counsel a tape consisting of the CPS-II data that you used to make your calculations -- which were similar to these, not identical, but similar. And I received in the mail a tape which contained all the male information.

Since I didn't depose you again after that, I didn't know whether you, you yourself, used the male -- used the female data as well as the male. And now I understand that you do have the female data and have used it. So I would ask counsel to supply the female data in the same format that it was earlier supplied for the male data. And it's unnecessary to re-supply the male data, since I have that.

MR. PLESEC: As I understand it, your request is for female data similar to that which was provided in

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connection with the Clark case?

MR. WILNER: Yes, I think Dr. Wecker will recall that he copied a tape for me in the Clark case and that -- actually there were two tapes of ASCII data consisting of all-male records of the CPS-II.

Q. Let me just ask you, Doctor, did you do that on request of attorneys last summer? It seems to me that that's where it came from.

A. Yes. Again, it was done at my direction. I didn't actually spin the tape.

Q. I understand. And my counts and analyses showed that I had the male data, and I wasn't suggesting that you did anything wrong and whatever -- whether I only asked for the male or only got the male -- but I got 500 and something thousand records, and they were all marked "M," so I guess I got the male.

But so that we're understanding each other and the nature of my request -- and subject to whatever you intend to do with it -- my request would be that you do the same thing with the female, spin the tape for the female as you have for the male.

A. Yes, I understand.

MR. WILNER: All right. In that way I would not have further questions at this time.

MR. PLESEC: Okay. Thanks, Counsel.

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(Whereupon, the deposition concluded
at 12:45 o'clock p.m.)

WILLIAM WECKER, Ph.D.

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I, DANA DIBASILIO TOGNINI, a Certified
Shorthand Reporter of the State of California, duly
authorized to administer oaths pursuant to Section 8211
of the California Code of Civil Procedure, do hereby
certify that

WILLIAM WECKER, Ph.D.,

the witness in the foregoing deposition, was by me duly
sworn to testify the truth, the whole truth and nothing
but the truth in the within-entitled cause; that said
testimony of said witness was reported by me, a
disinterested person, and was thereafter transcribed
under my direction into typewriting and is a true and
correct transcription of said proceedings.

I further certify that I am not of counsel or
attorney for either or any of the parties in the
foregoing deposition and caption named, nor in any way
interested in the outcome of the cause named in said
caption.

Dated the 8th day of April, 1997.

Dana Dibasilio Tognini

DANA DIBASILIO TOGNINI
CSR No. 10118 (California)

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COPY

William Wecker, Ph.D.
505 San Marin Dr., Ste. 200
Novato, CA 94945

Date: April 8, 1997
Re: Connor vs. RJR Tobacco Co.
Deposition Date: April 4, 1997

Dear Dr. Wecker,

Please be advised the original transcript of your deposition is ready for your review.

You have 35 days from the date of this letter to read, correct if necessary, and sign your transcript. It will then be sealed and sent to the examining attorney pursuant to the applicable law. You are not required by law to read and sign your deposition.

You may either come to our office to read and sign the original transcript, or you may contact your attorney or the attorney who arranged for you to be present at your deposition. If they have ordered a copy of the transcript you may review their copy and make corrections by submitting, signing and returning the attached form. If you choose to review your transcript at our office, please call first to make an appointment. Should you have any question regarding these instructions, please call.

Sincere

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cc: All counsel
Original deposition

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ATTORNEY'S NOTES

Page Line Notes

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